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2	3	(("6,604,209") or ("6,591,272") or ("6,557,009")).PN.	USPAT; US-PGPUB	2003/12/11 15:25

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**(j2ee AND ejb): 6 patents.**

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  - 3 [6,591,272](#) **T** [Method and apparatus to make and transmit objects from a database on a server computer to a client computer](#)
  - 4 [6,557,009](#) **T** [Environmental permit web portal with data validation capabilities](#)
  - 5 [6,542,845](#) **T** [Concurrent execution and logging of a component test in an enterprise computer system](#)
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Then click **Search Again**.**Results:**Journal or Magazine = **JNL** Conference = **CNF** Standard = **STD****1 Performance and scalability measurement of COTS EJB technology***Yan Liu, J.;*

Computer Architecture and High Performance Computing, 2002. Proceedings. 14 Symposium on , 28-30 Oct. 2002

Page(s): 212 -219

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## 1 Comparing industry benchmarks for J2EE application server: IBM's trade2

Yan Zhang, Anna Liu, Wei Qu

February 2003 Proceedings of the twenty-sixth Australasian computer science conference  
practice in information technology - Volume 16

Full text available: pdf(363.74 KB)

Additional Information: full citation, abstract, reference

As the Internet and enterprise wide distributed systems become more prevalent advanced COTS (commercial off-the-shelf) middleware technologies have appeared. The middleware technology type is Sun's Java 2 Enterprise Edition (J2EE) technology. J2EE application server implementations in the marketplace with almost no vendors all claim to have implemented them ...

Keywords: COTS, benchmark, component-based system, empirical results, m

## 2 Columns: Surfing the net for software engineering notes

Mark Doernhoefer

September 2002 ACM SIGSOFT Software Engineering Notes, Volume 27 Issue 5

Full text available: pdf(1.67 MB)

Additional Information: full citation

### 3 Business-to-business interactions: issues and enabling technologies

B. Medjahed, B. Benatallah, A. Bouguettaya, A. H. H. Ngu, A. K. Elmagarmid

May 2003 The VLDB Journal &mdash; The International Journal on Very Large D

Full text available:  pdf(558.34 KB)

Additional Information: full citation, abstra

Business-to-Business (B2B) technologies pre-date the Web. They have existed for decades. Some of the first applications were among the first to take advantage of advances in computer Interchange (EDI) business standard is an illustration of such an early adoption. The ubiquity and the affordability of the Web has made it possible for the many business-to-business interactions. However, several issues ...

Keywords: B2B Interactions, Components, E-commerce, EDI, Web services, W

### 4 Implementation of a WebDAV-based collaborative distance learning environment

Changtao Qu, Thomas Engel, Christoph Meinel

October 2000 Proceedings of the 28th annual ACM SIGUCCS conference on User

Full text available:  pdf(184.04 KB)

Additional Information: full citation, references, cit

Keywords: Java 2 platform enterprise edition, JavaServer pages, collaborative virtual university, web-based distributed authoring and versioning

### 5 The <bigwig> project

Claus Brabrand, Anders Møller, Michael I. Schwartzbach

May 2002 ACM Transactions on Internet Technology (TOIT), Volume 2 Issue

Full text available:  pdf(586.33 KB)

Additional Information: full citation, abstract, reference

We present the results of the <bigwig> project, which aims to develop a domain-specific language for programming interactive Web services.

A fundamental aspect of the development of the World Wide Web is the change from static to dynamic generation of Web pages. Generating Web pages with the client has the advantage of providing up-to-date and tailored Web pages of systems ...

Keywords: Interactive Web services, program analysis

## 6 Extending Java for high-level Web service construction

Aske Simon Christensen, Anders Møller, Michael I. Schwartzbach

November 2003 ACM Transactions on Programming Languages and Systems (TO

Full text available:  pdf(947.02 KB)

Additional Information: full citation, abstract, refere



We incorporate innovations from the <bigwig> project into the Java language service programming. The resulting language, JWIG, contains an advanced se dynamic construction of XML documents, in particular XHTML. To support prog program analyses that at compile time verify for a given program that no run documents or receiving form input, and ...

Keywords: Interactive Web services, XML, data-flow analysis

## 7 Experience reports: software architecture II: The co-evolution of a hype and component-producing large-scale EJB early adopters

Lutz Prechelt

May 2003 Proceedings of the 25th international conference on Software engin

Full text available:  pdf(367.70 KB)  Publisher Site

Additional Information: full

abaXX.components was one of the first API software products fully based on E technology. We describe the evolution of its architecture as it moved from sim truth, through several intermediate stages, to using EJB simply as one of seve techniques. So far, the public perception of how to use EJB properly evolved a months behind.

## 8 Migrating E-commerce database applications to an enterprise Java enviro

Terence C. Lau, Jianguo Lu, Erik Hedges, Emily Xing

November 2001 Proceedings of the 2001 conference of the Centre for Advanced S

Full text available:  pdf(572.66 KB)

Additional Information: full citation, abstract, refere

As technology evolves over time, a common problem is the migration of softw to another. This paper is a practical experience report based on IBM Net.Comm (WCS) migration. It identifies the problems and issues in the migration of app (SQL) to applications using the Enterprise Java Bean (EJB) programming mod facilitating such migration. It a ...

Keywords: E-commerce, JSP, Net.data, SQL, database re-engineering, enterp mapping

## 9 The making of Orbix and the iPortal suite

Sean Baker

June 2000

Proceedings of the 22nd international conference on Software engi

Full text available:  pdf(220.83 KB)

Additional Information: full citation, abstract, referen

IONA released the first full implementation of the CORBA standard in August become the most successful object request broker, capturing almost 70-perce follow-on products from IONA and from partner companies. This development the area of distributed object systems within Trinity College Dublin, centered distributed systems.Th ...

Keywords: CORBA, EJB, Internet, J2EE, components, iterative development, t

## 10 Saving the world from bad beans: deployment-time confinement checking

Dave Clarke, Michael Richmond, James Noble

October 2003

ACM SIGPLAN Notices , Proceedings of the 18th ACM SIGPLAN confe systems, languages, and applications, Volume 38 Issue 11

Full text available:  pdf(380.32 KB)

Additional Information: full citation, abstract, refer

The Enterprise JavaBeans (EJB) framework requires developers to preserve ar writing EJB components. Breaking these constraints allows components to vio security mechanisms, disable object persistence, and be susceptible to malici object confinement discipline that allows static verification of components' int server. The confinement rules are ...

Keywords: confinement, deployment tools, enterprise JavaBeans

## 11 Probing the black box: Performance debugging for distributed systems of b

Marcos K. Aguilera, Jeffrey C. Mogul, Janet L. Wiener, Patrick Reynolds, Athicha

October 2003

Proceedings of the nineteenth ACM symposium on Operating sys

Full text available:  pdf(408.85 KB)

Additional Information: full citation, abstract, refere

Many interesting large-scale systems are distributed systems of multiple com be very hard to debug, especially when they exhibit poor performance. The pr systems are composed of "black-box" components: software from many differ without source code available. Typical solutions-provider employees are not a debug these systems efficiently. Our goal is to ...

Keywords: black box systems, distributed systems, performance analysis, per



## 12 MJ: a rational module system for Java and its applications

John Corwin, David F. Bacon, David Grove, Chet Murthy

October 2003 ACM SIGPLAN Notices , Proceedings of the 18th ACM SIGPLAN conference on programming languages, systems, languages, and applications, Volume 38 Issue 11

Full text available:  pdf(208.83 KB)

Additional Information: full citation, abstract, refer

While Java provides many software engineering benefits, it lacks a coherent module system. Modules (which are primarily a name space mechanism) and classloaders (which Java applications suffer from unexpected interactions between independent code definitions, and are often extremely complex to install and maintain. We have called MJ that is implemented with class ...

Keywords: Java, components, language design, modularity

## 13 Article abstracts with full text online: Towards software architecture at runtime

Gang Huang, Hong Mei, Qian-xiang Wang

March 2003 ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 2

Full text available:  pdf(316.01 KB)

Additional Information: full citation



As Internet and wireless network make the runtime environment much more and more complex and difficult to maintain. Software architecture at run-time and reason the run-time system. Moreover, RSA helps to keep SA consistent and presents an approach to three fundamental issues of RSA, including making and maintaining the causal-connection between ...

Keywords: reflection, runtime software architecture, software architecture, so

## 14 Technical papers: component technologies: The Vienna Component Framework component models

Johann Oberleitner, Thomas Gschwind, Mehdi Jazayeri

May 2003 Proceedings of the 25th international conference on Software engineering

Full text available:  pdf(1.14 MB)  Publisher Site

Additional Information: full

The Vienna Component Framework (VCF) supports the interoperability and composition of component models, a facility that is lacking in existing component models. The model---implemented by a façade component---to the application programme components by composing components from different component models, also supports common component features, namely, methods, properties ...

### 15 At the forge: Entity beans

Reuven M. Lerner


January 2002 Linux Journal, Volume 2002 Issue 93

Full text available:  html(19.93 KB) Additional Information: full citation, index terms

### 16 At the forge: Enterprise Javabeans

Reuven M. Lerner

December 2001 Linux Journal, Volume 2001 Issue 92

Full text available:  html(23.11 KB) Additional Information: full citation

### 17 XML-enabled workflow management for e-services across heterogeneous

German Shegalov, Michael Gillmann, Gerhard Weikum

August 2001 The VLDB Journal &mdash; The International Journal on Very Large

Full text available:  pdf(662.54 KB) Additional Information: full citation, abstract, cit

Advanced e-services require efficient, flexible, and easy-to-use workflow tech mainstream Internet technologies such as XML and Web servers. This paper d distributed workflow management that is implemented in the latest version o asset of this architecture is an XML mediator that handles the exchange of bu workflow and business-object servers on t ...

Keywords: Business processes, Information system interoperability, Internet XML/XSL

### 18 iMobile EE: an enterprise mobile service platform

Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John Muthumanickam, Bin Wei

July 2003 Wireless Networks, Volume 9 Issue 4

Full text available:  pdf(2.90 MB) Additional Information: full citation, abstract, referenc

iMobile<sup>1</sup> is an enterprise mobile service platform that allows resource-limited other and to securely access corporate contents and services. The original iMo provide protocol interfaces to different mobile devices and infolets that access device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the orig security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterpris

## 19 Departments: Toolkit: Scripting Web Services Prototypes

Christopher Vincent

March 2003

Queue, Volume 1 Issue 1



Full text available:  pdf(295.67 KB)  html(21.95 KB) Additional Information: full citation, index terms

## 20 Developing and integrating enterprise components and services: Enterprise

Paul Fremantle, Sanjiva Weerawarana, Rania Khalaf

October 2002

Communications of the ACM, Volume 45 Issue 10

Full text available:  pdf(157.90 KB)  html(45.90 KB) Additional Information: full citation, index terms

Examining the emerging field of Web Services and how it is integrated into ex

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## 21 A component model for standardized web-based education

August 2001

Journal on Educational Resources in Computing (JERIC)

Full text available: pdf(384.31 KB)

Additional Information: full citation, abstract, references

We present a layered component model to support Web-based collaborative a programmers focus on the particular logic of their applications, avoiding most access control, and network management. The proposed model is organized in composed of commercial-off-the-shelf services and standard Internet protoco network-transparent communications layer, data ...

Keywords: authoring tools, collaborative systems, educational web application web-based course delivery systems

## 22 Technical papers: software process: Using process technology to control a

Giuseppe Valetto, Gail Kaiser

May 2003

Proceedings of the 25th international conference on Software engin

Full text available: pdf(1.30 MB) Publisher Site

Additional Information: full c



We have developed an infrastructure for end-to-end run-time monitoring, beh adaptation of distributed software. This infrastructure is primarily targeted to <u>outside</u> the target application, without making assumptions about th communication/computation mechanisms, source code availability, etc. This p monitoring and analysis components ...

## 23 E-services: The Web services debate: J2EE vs. .NET

Joseph Williams

June 2003

Communications of the ACM, Volume 46 Issue 6

Full text available:  pdf(124.55 KB)  html(22.62 KB)

Additional Information: fu

As the articles in this section attest, the future of Web services is as certain a arena is most certainly the next technological wave; what is not so clear is wh The challenge of selecting the tools to successfully pull all the components to

## 24 Performance and scalability of EJB applications

Emmanuel Cecchet, Julie Marguerite, Willy Zwaenepoel

November 2002 ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN con systems, languages, and applications, Volume 37 Issue 11

Full text available:  pdf(306.80 KB)

Additional Information: full citation, abstra

We investigate the combined effect of application implementation method, co communication layers on the performance scalability of J2EE application serve of an auction site server. We have implemented five versions of the auction si beans, making only minimal use of the services provided by the Enterprise Ja entity beans, one with container- ...

Keywords: EJB container design, communication optimization, performance, p

## 25 DAOP-ADL: an architecture description language for dynamic component :

Mónica Pinto, Lidia Fuentes, Jose María Troya

September 2003 Proceedings of the second international conference on Generative

Full text available:  pdf(307.17 KB)

Additional Information: full citation, abstract, refere



Architecture description languages deal with the description, analysis and reu describes DAOP-ADL, a component- and aspect-based language to specify the components, aspects and a set of plug-compatibility rules between them. Wit the application architecture to the implementation, we describe our language DAOP-ADL language was designed to be ...

## 26 Invited papers on the frontiers of software practice: Patterns, frameworks, & relationships

Douglas C. Schmidt, Frank Buschmann

May 2003

Proceedings of the 25th international conference on Software engin

Full text available:  pdf(1.58 MB)  Publisher Site

Additional Information: full

The knowledge required to develop complex software has historically existed experienced developers, or buried deep in the code. These locations are not id evolve this knowledge is expensive, time-consuming, and error-prone. Many p tools address certain aspects of these problems by documenting *how* a system limited portions of software ...

## 27 Articles: Web Services: Promises and Compromises

Joanne Martin, Ali Arsanjani, Peri Tarr, Brent Hailpern

March 2003

Queue, Volume 1 Issue 1

Full text available:  pdf(1.98 MB)  html(30.98 KB) Additional Information: full citation, index terms

## 28 At the forge: introducing Enhydra

Reuven Lerner

September 2001

Linux Journal, Volume 2001 Issue 89

Full text available:  html(24.82 KB) Additional Information: full citation, index terms

## 29 Student competition papers: A framework for using component redundancy component-based enterprise systems

Ada Diaconescu

October 2003 Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming and applications

Full text available:  pdf(104.51 KB)

Additional Information: full citation, abstract, refer

We propose a framework that uses component redundancy for enabling self-a self-healing capabilities in component-based enterprise software systems.

Keywords: component-based enterprise systems, decision policy, middleware self-optimisation

## 30 Doctoral papers: A framework for using component redundancy for self-adaptation component-based enterprise systems

Ada Diaconescu

October 2003 Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming and applications

Full text available:  pdf(149.93 KB)

Additional Information: full citation, abstract, refer

We propose a framework that uses component redundancy for enabling self-a self-healing capabilities in component-based enterprise software systems.

Keywords: component-based enterprise systems, decision policy, middleware self-optimisation

### 31 At the forge: choosing tools

Reuven M. Lerner


February 2003 Linux Journal, Volume 2003 Issue 106

Full text available:  html(18.39 KB) Additional Information: full citation, index terms

### 32 Middleware: Designing a test suite for empirically-based middleware perfor

Yan Liu, Ian Gorton, Anna Liu, Ning Jiang, Shiping Chen

February 2002 Proceedings of the Fortieth International Confernece on Tools Pacifi  
embedded applications - Volume 10

Full text available:  pdf(1.03 MB)

Additional Information: full citation, abstract, referen

One of the major problems in building large-scale enterprise systems is antici  
solution before it has been built. This problem is especially germane to moder  
where failure to provide high performance and scalability can lead to applicat  
software engineering problem is compounded by many factors, including appl  
and options, COTS compone ...

Keywords: COTS, component-based system, empirical results, middleware, pe

### 33 Linux in education: Implementing a research knowledge base

Michael Yuan

November 2001 Linux Journal, Volume 2001 Issue 91

Full text available:  html(18.70 KB) Additional Information: full citation, index terms

### 34 Access rights analysis for Java

Larry Koved, Marco Pistoia, Aaron Kershenbaum

November 2002 ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN con  
systems, languages, and applications, Volume 37 Issue 11

Full text available:  pdf(360.93 KB)

Additional Information: full citation, abstract, reference

Java 2 has a security architecture that protects systems from unauthorized ac  
code. The problem is in manually determining the set of security access right  
application. The commonly used strategy is to execute the code, note authori  
rights, and test again. This process iterates until the code successfully runs fo  
do not cover all paths th ...

Keywords: Java security, access rights, call graph, data flow analysis, invocat

### **35 Article abstracts with full text online: How scalable is J2EE technology?**

Paul Brebner, Jeffrey Gosper

May 2003

ACM SIGSOFT Software Engineering Notes, Volume 28 Issue 3

Full text available:  pdf(315.07 KB)

Additional Information: full citation, abstract

ECperf, the widely recognized industry standard J2EE benchmark, has attracted and their subsequent publication. However, ECperf places little restriction on and databases utilized in the benchmarking process. This, combined with the makes it difficult to answer critical questions such as "Is there a limit to J2EE more effective?". By mi ...

Keywords: Enterprise Java Beans (EJB), J2EE, scalability, scale-out, scale-up

### **36 Frameworks for component-based client/server computing**

Scott M. Lewandowski

March 1998

ACM Computing Surveys (CSUR), Volume 30 Issue 1



Full text available:  pdf(243.81 KB) Additional Information: full citation, references, citations, index terms

### **37 Technical opinion: Component-based data mining frameworks**

Fernando Berzal, Ignacio Blanco, Juan-Carlos Cubero, Nicolas Marin

December 2002

Communications of the ACM, Volume 45 Issue 12

Full text available:  pdf(110.82 KB)  html(18.89 KB) Additional Information: full citation, abstract, reference

OLAP Vs. OLTP in the middle tier.

### **38 Experience reports: case studies: The deployer's problem: configuring application reliability**

Mukund Raghavachari, Darrell Reimer, Robert D. Johnson

May 2003

Proceedings of the 25th international conference on Software engineering

Full text available:  pdf(606.37 KB)  Publisher Site

Additional Information: full citation, abstract, reference

Frameworks such as J2EE are designed to simplify the process of developing the complexity of concurrency, transaction, and persistence management. An framework implements these concerns, freeing the application developer to focus on business logic aspect of the application, In such frameworks, the deployer, the application server to manage concurrency, ...



**39 The convergence of AOP and active databases: towards reactive middlew**

Mariano Cilia, Michael Haupt, Mira Mezini, Alejandro Buchmann

September 2003 Proceedings of the second international conference on Generative

Full text available:  pdf(330.81 KB)

Additional Information: full citation, abstract, refere

Reactive behavior is rapidly becoming a key feature of modern software syste computing, autonomic systems, and event-based supply chain management. of techniques from aspect oriented programming, active databases and async reactive middleware. We identify the common core of abstractions and explai start a dialogue across community boundaries. W ...

**40 Behavioural analysis of the enterprise JavaBeans component architecture**

Shin Nakajima, Tetsuo Tamai

May 2001 Proceedings of the 8th international SPIN workshop on Model checki

Full text available:  pdf(273.66 KB)

Additional Information: full citation, abstract

Rigorous description of protocols (a sequence of events) betwe specifications of distributed component frameworks. This paper formalizing and verifying behavioural aspects of the Enterprise with the SPIN model checker. As a result, some potential flaws specification document. The case study also demonstrates that effective tool for behavioura ...

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**41 Technical papers: software architecture I: Comparison of two component fr  
multi-agent system and the web-centrie J2EE platform**

Michelle Casagni, Margaret Lyell

May 2003

Proceedings of the 25th international conference on Software engin

Full text available: pdf(1.02 MB) Publisher Site

Additional Information: full c

This work compares and contrasts two component frameworks: (1) the web-c  
framework and (2) the FIPA-compliant multi-agent system (MAS). FIPA, the F  
provides specifications for agents and agent platforms. Both frameworks are c  
Enterprise Java Beans (EJBs) in the case of J2EE and software agents in the c  
specification based. Both frameworks mandate platfo ...

**42 MultECommerce: a distributed architecture for collaborative shopping on tr**

Stefano Puglia, Robert Carter, Ravi Jain

October 2000

Proceedings of the 2nd ACM conference on Electronic commer

Full text available: pdf(690.44 KB)

Additional Information: full citation, references, citings



Keywords: WWW engineering, component technologies, e-commerce APIs, e-  
JavaBeans, shared navigation

**43 Developing and integrating enterprise components and services: Introduction**

Ali Arsanjani

October 2002

Communications of the ACM, Volume 45 Issue 10

Full text available:  pdf(112.93 KB)  html(30.68 KB) Additional Information: full citation, references, citations,

**44 Model-driven development of Web applications: the AutoWeb system**

Piero Fraternali, Paolo Paolini

October 2000

ACM Transactions on Information Systems (TOIS), Volume 18

Full text available:  pdf(6.94 MB)

Additional Information: full citation, abstract, references,

This paper describes a methodology for the development of WWW application tailored for the methodology. The methodology and the development environment techniques already used in the hypermedia, information systems, and software in an original mix. The foundation of the proposal is the conceptual design of notation for the specification of structure, navigation ...



Keywords: HTML, WWW, application, development, intranet, modeling

**45 Integrating web sites and databases**

Mike Morrison, Joline Morrison, Anthony Keys

September 2002

Communications of the ACM, Volume 45 Issue 9

Full text available:  pdf(135.26 KB)  html(44.19 KB)

Additional Information: full citation,



Web site developers creating 'data-based Web pages' that interact with organ and client-side processing.

**46 Technical papers: software design: DADO: enhancing middleware to support heterogeneous systems**

Eric Wohlstadter, Stoney Jackson, Premkumar Devanbu

May 2003

Proceedings of the 25th international conference on Software engineering

Full text available:  pdf(1.56 MB)  Publisher Site

Additional Information: full citation

Some "non-" or "extra-functional" features, such as reliability, security, and timing programming languages. This makes such features hard to design, implement features within a single platform, using a single language, is hard enough. Within systems, these features induce complex implementations which cross-cut different platforms, while still needing to share data and ...

**47 Security for Web Applications and P2P: Abstracting application-level web s**

David Scott, Richard Sharp

May 2002 Proceedings of the eleventh international conference on World Wid

Full text available:  pdf(287.51 KB)

Additional Information: full citation, abstract, reference

Application-level web security refers to vulnerabilities inherent in the code of technologies in which it is implemented or the security of the web-server/back end. In the last few months application-level vulnerabilities have been exploited with serious consequences: e-commerce sites into shipping goods for no charge, user-names and password information (such as ...

Keywords: application-Level web security, component-based design, security

**48 Student competition papers: A self-optimizing application server design for**

Mircea Trofin

October 2003 Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming and applications

Full text available:  pdf(93.02 KB)

Additional Information: full citation, abstract, reference

We propose a self-optimizing application server design for EJB component technology. The discovery of inter-component communication patterns and the application of compiler optimizations to address the impact the application server has on system performance.

Keywords: COTS, EJB, adaptation, container, optimization, platform

**49 Tools and approaches for developing data-intensive Web applications: a survey**

Piero Fraternali

September 1999

ACM Computing Surveys (CSUR), Volume 31 Issue 3

Full text available:  pdf(524.80 KB)

Additional Information: full citation, abstract, reference

The exponential growth and capillar diffusion of the Web are nurturing a novel business model by a direct business-to-customer relationship. The development of such applications requires new development and Hypermedia authoring, and challenges the existing tools and approaches. This paper investigates the current situation of Web development tools, both in terms of identifying and characterizing ...

Keywords: HTML, Intranet, WWW, application, development

**50 Articles: An Open Web Services Architecture**

Stan Kleijnen, Srikanth Raju

March 2003

Queue, Volume 1 Issue 1

Full text available:  pdf(1.59 MB)  html(24.96 KB) Additional Information: full citation, index terms

**51 Interval parameters for capturing uncertainties in an EJB performance model**

Johannes Lüthi, Catalina M. Lladó

June 2001 ACM SIGMETRICS Performance Evaluation Review , Proceedings of the conference on Measurement and modeling of computer systems, Volu

Full text available:  pdf(932.31 KB)

Additional Information: full citation, ab


Exact as well as approximate analytical solutions for quantitative performance obtained by performing a series of arithmetical operations on the input parameters during early phases of system design and implementation, not all the parameters related research contributions, intervals have been proposed as a means to capture. Furthermore, methods to adapt existing so ...

Keywords: distributed systems, enterprise JavaBeans, interval parameters, performance models, queueing

**52 SEDA: an architecture for well-conditioned, scalable internet services**

Matt Welsh, David Culler, Eric Brewer

October 2001 ACM SIGOPS Operating Systems Review , Proceedings of the eight principles, Volume 35 Issue 5

Full text available:  pdf(1.51 MB)

Additional Information: full citation, abstract, references,

We propose a new design for highly concurrent Internet services, which we call (SEDA). SEDA is intended to support massive concurrency demands and simple services. In SEDA, applications consist of a network of event-driven *stages* and the architecture allows services to be well-conditioned to load, preventing resource demand exceeds service capacity ...

**53 Open hypermedia and the web: Xspect: bridging open hypermedia and XML**

Bent G. Christensen, Frank Allan Hansen, Niels Olof Bouvin

May 2003 Proceedings of the twelfth international conference on World Wide

Full text available:  pdf(288.32 KB)

Additional Information: full citation, abstract, refere

This paper evaluates the XLink format in comparison with other linking format implementations of XLink. Xspect handles transformation between an open hypermedia paper discusses this isomorphic transformation and generalises it to include a The Xspect system, based on XSLT and Javascript, provides users with an intelligent Xspect supports navigational hypermedia ...

Keywords: FOHM, OHIF, SVG, XLink, XPointer, Xspect, annotations, open hypermedia

**54 Applications: Achieving interoperability for integration of heterogeneous CC**

Shengru Tu, Liang Xu, Mahdi Abdelguerfi, Jay J. Ratcliff

November 2002 Proceedings of the tenth ACM international symposium on Advanc

Full text available:  pdf(105.88 KB)

Additional Information: full citation, abstract, refere


Using multiple commercial off-the-shelf (COTS) GIS suites is a common phen often have different strengths in various applications. On the other hand, dep tendency to form fragmented data sets and to cause inconsistency. Data cons data integrity. To accomplish this, we must achieve interoperability between d data have the standard databas ...

Keywords: COTS-based systems, GIS, J2EE, interoperability, system integrati

**55 Quantifying aspects in middleware platforms**

Charles Zhang, Hans-Arno. Jacobsen

March 2003 Proceedings of the 2nd international conference on Aspect-oriented

Full text available:  pdf(1.26 MB)

Additional Information: full citation, abstract, reference

Middleware technologies such as Web Services, CORBA and DCOM have been computing problems for a large family of application domains. As middleware more functionally mature, it is also increasingly difficult for the architecture o adaptability and configurability, due to the limitations of traditional software d programming has brought us new de ...

Keywords: aspect mining, aspect oriented programming, distributed systems, software architecture

**56 Mobility and Wireless Access: A web middleware architecture for dynamic clients**

Jesse Steinberg, Joseph Pasquale

May 2002 Proceedings of the eleventh international conference on World Wid

Full text available:  pdf(224.43 KB)

Additional Information: full citation, abstract, refere

We present a new Web middleware architecture that allows users to customiz interaction and system operation when using non-traditional resource-limited (personal digital assistants). Web Stream Customizers (WSC) are dynamically strategically located between client and server to achieve improvements in pe important design feature is that Customizer ...

Keywords: HTTP, middleware, mobile code, proxy, wireless

**57 Information systems: User interface code generation for EJB-based data representations**

Branko Milosavljevi?, Milan Vidakovi?, Srdjan Komazec, Gordana Milosavljevi?

June 2003 Proceedings of the 2nd international conference on Principles and practice of declarative programming

Full text available:  pdf(133.64 KB)

Additional Information: full citation, abstract

The use of J2EE platform enables data model development based on EJB component technology, although resembling those of relational databases, are different at the user interface code generation. This paper presents a method for user interface code generation that can be used to build equivalent user interfaces in multiple applications, web, or wireless devices. ...

**58 Panels: Application servers: one size fits all ... not?**

Gail E. Harris, David Leibs, Jeromy Carrière, Fred Nagy, John Crupi, Martin Nally

October 2003 Companion of the 18th annual ACM SIGPLAN conference on Object-oriented programming and applications

Full text available:  pdf(147.61 KB)

Additional Information: full citation, abstract

In the beginning there was machine language, followed by assembly language and procedural programming, to organize the chaos. And then objects were introduced. Client/Server and multi-tier applications were conceived to separate data from user interface concerns. Later, these objects were distributed geographically to save space. Now we have application servers, to simplify scaling ...

Keywords: .NET, J2EE, application architecture, application servers, availability

**59 Designing Dexter-based hypermedia services for the World Wide Web**

Kaj Grønbaek, Niels Olof Bouvin, Lennert Sloth

April 1997 Proceedings of the eighth ACM conference on Hypertext

Full text available:  pdf(1.08 MB)



Additional Information: full citation, references, citations

Keywords: ActiveX, Dexter hypertext reference model, HTML, Java, JavaScript, hypermedia service

**60 Modeling Web application architectures with UML**

Jim Conallen

October 1999 Communications of the ACM, Volume 42 Issue 10

Full text available:  pdf(146.85 KB)  html(39.12 KB) Additional Information: full citation, references, citations

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## 61 Exploiting value-added content in an online course: introducing programmi

Joseph L. Zachary, Peter A. Jensen

January 2003 ACM SIGCSE Bulletin , Proceedings of the 34th SIGCSE technical sym  
Volume 35 Issue 1

Full text available: pdf(161.62 KB)

Additional Information: full citation, abstract, refer

Online courses have proliferated across all disciplines in recent years. One com  
online course is to build a web site containing as much course information---a  
streaming videos, and the like---as possible. The goal of this type of course is  
extent possible, the classroom experience. Online courses built this way explo  
networked computers. We beli ...

Keywords: CS0, HTML, JavaScript, online courses

## 62 Modeling components and frameworks with UML

Cris Kobryn

October 2000

Communications of the ACM, Volume 43 Issue 10

Full text available: pdf(226.29 KB) html(35.10 KB) Additional Information: full citation, references, citings,

**63 Session 2 (short papers): system and practical issues: A framework for flexible heterogeneous systems**

Eric Wohlstadter, Brian Toone, Prem Devanbu

May 2002

Proceedings of the international workshop on Principles of software

Full text available:  pdf(375.07 KB)

Additional Information: full citation, abstract, re

Distributed, heterogeneous systems are becoming very common, as globalize running on different platforms, possibly written in different languages. Certain security, QoS, and flexible administration are specially critical to distributed h requirements are often formulated late, since they depend upon a particular i business and political climate. ...

**64 Measuring and characterizing end-to-end Internet service performance**

Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat

November 2003

ACM Transactions on Internet Technology (TOIT), Volume

Full text available:  pdf(1.46 MB)

Additional Information: full citation, abstract, referen

Fundamental to the design of reliable, high-performance network services is a characteristics of the service as perceived by the client population as a whole end-to-end service performance is a challenging task. Current techniques incl characteristics from strategic locations in the network and instrumenting Web client-perceived latency back to a performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, pass composition, web site performance

**65 Web-based and Java-based simulation: Finding a substrate for federated c**

John A. Miller, Andrew F. Seila, Junxiu Tao

December 2000

Proceedings of the 32nd conference on Winter simulation

Full text available:  pdf(85.61 KB)

Additional Information: full citation, abstrac

Recent developments in software component technology have renewed the pr with the possibilities of sharing simulation results and models using the Inter more important, particularly for Web-Based Simulation. Interoperability stand (e.g., XML) help facilitate having simulation models interact with other simula technology components. This pap ...

**66 Consistency and replication: Evaluation of edge caching/offloading for dynamic content**

Chun Yuan, Yu Chen, Zheng Zhang

May 2003

Proceedings of the twelfth international conference on World Wide Web

Full text available:  pdf(161.49 KB)

Additional Information: full citation, abstract, refereed

As dynamic content becomes increasingly dominant, it becomes an important issue for web applications, such as client-side proxies, which are otherwise underutilized for such content. It is not clear what will be the best strategy and the design/deployment tradeoffs lie between them. In this paper, using a representative e-commerce benchmark, we report our experience of an extensive evaluation of different caching and offloading options. Our results point out the importance of dynamic content and caching options.



Keywords: dynamic content, edge caching, offloading

**67 E-services: The Web services debate: .NET vs. J2EE**

Gerry Miller

June 2003

Communications of the ACM, Volume 46 Issue 6

Full text available:  pdf(141.83 KB)  html(18.03 KB) Additional Information: full citation, index terms

**68 The evolution of the DARWIN system**

Joan D. Walton, Robert E. Filman, David J. Kormeyer

March 2000

Proceedings of the 2000 ACM symposium on Applied computing

Full text available:  pdf(897.54 KB)

Additional Information: full citation, references, index terms

Keywords: DARWIN, WWW applications, collaborative engineering, distributed systems

**69 Web-based specification and integration of legacy services**

Ying Zou, Kostas Kontogiannis

November 2000

Proceedings of the 2000 conference of the Centre for Advanced Studies

Full text available:  pdf(279.28 KB)

Additional Information: full citation, abstract, refereed

With the explosive growth of the Internet, businesses of all sizes aim to apply web-based technologies to their infrastructures, migrating their legacy business processes into web-based environments. To facilitate process and service integration, a complete and consistent language, is essential for server processes to be specified and for client processes to be implemented. In this paper, we describe a Web-enabled re-engineering process.

**70 Commerce and Businesses: Self-managing, disconnected processes and i**

J. Sairamesh, S. Goh, I. Stanoi, C. S. Li, S. Padmanabhan

September 2002

Proceedings of the 2nd international workshop on Mobile co

Full text available:  pdf(351.90 KB)

Additional Information: full citation, abstract, referen

With the tremendous advances in hand-held computing and communication c devices, and decreasing device costs, we are seeing a growth in mobile e-bus markets. In this paper, we present a novel architecture and framework for en such as purchasing, retail point of sales, and order management. The design application context and failure modes t ...

Keywords: context-driven computing, disconnected computing, mobile compu systems, workflow

**71 Web-based personalization and management of interactive video**

Rune Hjelsvold, Subu Vdaygiri, Yves Léauté

April 2001

Proceedings of the tenth international conference on World Wide W

Full text available:  pdf(611.20 KB)

Additional Information: full citation, references, ci

Keywords: J2EE, SMIL, dynamic content generation, interactive video, media personalization

**72 sTeam - Designing an integrative infrastructure for Web-based computer-s**

Thorsten Hampel, Reinhard Keil-Slawik

April 2001

Proceedings of the tenth international conference on World Wide W

Full text available:  pdf(265.67 KB)

Additional Information: full citation, reference

Keywords: cooperation support, cooperative learning, learner-centered approa team, web-based learning and teaching

**73 sTeam: structuring information in team-distributed knowledge management**

August 2001

Journal on Educational Resources in Computing (JERIC)

Full text available:  pdf(179.03 KB)

Additional Information: full citation, abstract, reference

Learning is a socially embedded design process. But most of today's hypermedia design-related and the social aspects of learning. Authoring and Web-publishing design processes. Consequently, the activities of learners are confined to select fundamental reflections on the role of technology in learning processes, we can see the construction of infrastructure ...

Keywords: cooperative learning, cooperative support, learner-centered approach (team), web-based learning and teaching

**74 Web-based tools, systems and environments: Software configuration, distributed**

Rainer Anzböck, Schahram Dustdar, Harald Gall

July 2002 Proceedings of the 14th international conference on Software engineering

Full text available:  pdf(519.92 KB)

Additional Information: full citation, abstract, reference



Web-Services can be seen as a newly emerging distributed computing model to establish business-to-business (B2B) interactions on the Web. Web-Services are a model encapsulating business logic and interact with other components using this paper discusses architectural issues and requirements for software configuration web-services.

Keywords: software architecture, software distribution environments, web-services

**75 What Netscape learned from cross-platform software development**

Michael A. Cusumano, David B. Yoffie

October 1999 Communications of the ACM, Volume 42 Issue 10

Full text available:  pdf(102.33 KB)  html(34.38 KB) Additional Information: full citation, references, index terms

**76 Vinci: a service-oriented architecture for rapid development of web applications**

Rakesh Agrawal, Roberto J. Bayardo, Daniel Gruhl, Spiros Papadimitriou

April 2001 Proceedings of the tenth international conference on World Wide Web

Full text available:  pdf(472.82 KB)



Additional Information: full citation, references, citations, index terms

**77 Developing and integrating enterprise components and services: Web serv computing**

Michael Stal

October 2002

Communications of the ACM, Volume 45 Issue 10

Full text available:  pdf(138.33 KB)  html(41.29 KB)

Additional Information: full citation, abst


Seeking a better solution to the application integration problem.

**78 Data integrity: Web application security assessment by fault injection and b**

Yao-Wen Huang, Shih-Kun Huang, Tsung-Po Lin, Chung-Hung Tsai

May 2003

Proceedings of the twelfth international conference on World Wide

Full text available:  pdf(4.53 MB)

Additional Information: full citation, abstract, referenc

As a large and complex application platform, the World Wide Web is capable o applications. However, many Web applications go through rapid development time, making it difficult to eliminate vulnerabilities. Here we analyze the desi mechanisms in order to identify poor coding practices that render Web applica injection and cross-site scr ...

Keywords: black-box testing, complete crawling, fault injection, security asse

**79 Queue management: Persistent dropping: an efficient control of traffic aggr**

Hani Jamjoom, Kang G. Shin

August 2003

Proceedings of the 2003 conference on Applications, technologies, ar communications

Full text available:  pdf(804.16 KB)

Additional Information: full citation, abstract, referen

Flash crowd events (FCEs) present a real threat to the stability of routers and characterized by a large and sustained spike in client arrival rates, usually to rate-based drop policies, such as Random Early Drop (RED), become ineffecti be persistent, in the sense that they make multiple retransmission attempts b built into TCP's congestion co ...

Keywords: flash crowd events, modeling, optimization, queue management

## 80 Full papers: Model-based adaptation for self-healing systems

David Garlan, Bradley Schmerl

November 2002

Proceedings of the first workshop on Self-healing system

Full text available:  pdf(126.12 KB)

Additional Information: full citation, abstract, refere

Traditional mechanisms that allow a system to detect and recover from errors level of code where they are hard to change, reuse, or analyze. An alternative *adaptation*: one or more models of a system are maintained at run time and e identifying problems and resolving them. In this paper we provide an overvie architectural models as the ba ...

Keywords: model-based systems, self-healing systems, software architecture

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**81 Coordination models, languages and applications: A comprehensive model**

Neal Sample, Dorothea Beringer, Gio Wiederhold

March 2002

Proceedings of the 2002 ACM symposium on Applied computing

Full text available: pdf(844.05 KB)

Additional Information: full citation, abstract, references

Within the realms of workflow management and grid computing, scheduling Most schedulers balance time and cost to fit within a client's budget, while a between services as the best resolution for scheduling. Results are extracted forwarded to the next service. However, distributed objects and remote service delivery and result extraction. ...

Keywords: CHARMS, partial, progressive, result extraction, scheduling



**82 Integrating independent components with on-demand remodularization**

Mira Mezini, Klaus Ostermann

November 2002 ACM SIGPLAN Notices , Proceedings of the 17th ACM SIGPLAN co systems, languages, and applications, Volume 37 Issue 11

Full text available:  pdf(297.04 KB)

Additional Information: full citation, abstract, references,

This paper proposes language concepts that facilitate the separation of an ap building blocks and the integration of pre-build generic software components developed by third party vendors. A key element of our approach are *on-dem* abstractions and vocabulary of an existing code base are translated into the components that are connected by a common ...

*Keywords: aspect-oriented programming, collaboration-based decomposition*

**83 Systems and prototypes: Phoenix project: fault-tolerant applications**

Roger Barga, David Lomet

June 2002

ACM SIGMOD Record, Volume 31 Issue 2

Full text available:  pdf(847.56 KB)

Additional Information: full citation, abstr


After a system crash, databases recover to the last committed transaction, b cannot continue. The Phoenix purpose is to enable application state to persis application program. This simplifies application programming, reduces opera increases application availability, which is critical in many scenarios, e.g., e- have explored how to ...

**84 Technical papers: design recovery: Architecture recovery of web applicati**

Ahmed E. Hassan, Richard C. Holt

May 2002

Proceedings of the 24th international conference on Software engi

Full text available:  pdf(1.23 MB)

Additional Information: full citation, abstract, referen

Web applications are the legacy software of the future. Developed under tigh and in a rapidly evolving environment, these systems are often poorly struct such systems is problematic. This paper presents an approach to recover the make maintenance more manageable. Our lightweight approach is flexible a that are used in developing web ...

## 85 Unifying strategies for Web augmentation

Niels Olof Bouvin

February 1999 Proceedings of the tenth ACM Conference on Hypertext and hypermedia  
returning to our diverse roots

Full text available:  pdf(1.40 MB)

Additional Information: full citation, references, citations

Keywords: Java, Web integration, collaboration on the Web, common reference systems, open hypermedia protocol, open hypermedia systems, unifying integration

## 86 The middleware muddle

David Ritter

December 1998

ACM SIGMOD Record, Volume 27 Issue 4

Full text available:  pdf(643.46 KB)

Additional Information: full citation, abstract, citations

A new menagerie of middleware is emerging. These products promise great applications across the diverse corporate computing landscape. What factors solution, and how do current products stack up? More important to the focus servers play?

## 87 Artefact: a framework for low-overhead Web-based collaborative systems

Jeff Brandenburg, Boyce Byerly, Tom Dobridge, Jinkun Lin, Dharmaraja Rajan,  
November 1998 Proceedings of the 1998 ACM conference on Computer support

Full text available:  pdf(909.87 KB)

Additional Information: full citation, references, citations

Keywords: Artefact, CORBA, CSCW, HTTP, World Wide Web, collaboration, group protocols

## 88 Applications of Java programming: Automatic code generation for databases

Branko Milosavljević, Milan Vidaković, Zora Konjović

June 2002 Proceedings of the inaugural conference on the Principles and Practice  
the second workshop on Intermediate representation engineering for

Full text available:  pdf(448.02 KB)

Additional Information: full citation, abstract, references

The paper presents an architecture for database-oriented web applications. It foundation for a code generation tool that supports the software construction The tool follows simple rules about mapping JavaBean components to the database as well as a set of standardized JSP pages. The mapping is specified as an instance presented here. Efficiency of this tool is a ...

**89 State-of-the-art presentations: Distributed component technologies and the**  
Wolfgang Emmerich

May 2002 Proceedings of the 24th international conference on Software engi

Full text available:  pdf(1.27 MB)

Additional Information: full citation, abstract, referen

In this state of the art report, we review advances in distributed component Beans specification and the CORBA Component Model. We assess the state o distributed components. We show several architectural styles for whose impl been used successfully. We review the use of iterative and incremental deve driven architecture. We then assess the st ...

**90 Designing wrapper components for e-services in integrating heterogeneo**

Massimo Mecella, Barbara Pernici

August 2001 The VLDB Journal &mdash; The International Journal on Very Large

Full text available:  pdf(292.68 KB)

Additional Information: full citation, abstrac

Component-based approaches are becoming more and more popular to supp development. Different component modeling approaches, however, can be a levels (either conceptual or operational). In this paper we present a compone e-applications, and discuss the concept of wrapper components as building b where these services are based on legacy systems. We dis ...

Keywords: Component, Cooperation, Integration, Legacy system, Wrapper, e

**91 Session 4: A framework for mobile-agents embodied in X3D networked vi**

Yoann Fabre

March 2003 Proceeding of the eighth international conference on 3D web te

Full text available:  pdf(332.92 KB)

Additional Information: full citation, abstract, refe



In this paper we present a VRML oriented framework that aims to capture th X3D toward multiuser and autonomous creatures. Our results can be underst structure of the framework as an effort to identify general concepts with spe that is to say, as a *design pattern*. One can also view the framework as a glu involved in the implementation of ...

Keywords: Virtual Reality Modeling Language (VRML), mobile agent, multi-u

**92 Software security and privacy risks in mobile e-commerce**

Anup K. Ghosh, Tara M. Swaminatha

February 2001 Communications of the ACM, Volume 44 Issue 2

Full text available:  pdf(90.58 KB)  html(38.81 KB) Additional Information: full citation, references, citings,

**93 Investigating link service infrastructures**

David C. De Roure, Nigel G. Walker, Leslie A. Carr

May 2000

Proceedings of the eleventh ACM on Hypertext and hypermedia

Full text available:  pdf(133.87 KB)

Additional Information: full citation, references, cit

Keywords: LDAP, Whois++, directory services, distributed link service, link s

**94 Industry perspective: Too much middleware**

Michael Stonebraker

March 2002

ACM SIGMOD Record, Volume 31 Issue 1

Full text available:  pdf(524.87 KB)

Additional Information: full citation, abstract, ref

The movement from client-server computing to multi-tier computing has cre systems, including application servers, workflow products, EAI systems, ETL this paper we argue that the explosion in middleware has created a myriad o overlapping functionality. The world would be well served by considerable co ways this might happen. Some of the points cove ...

**95 Programming languages for mobile code**

Tommy Thorn

September 1997

ACM Computing Surveys (CSUR), Volume 29 Issue 3

Full text available:  pdf(393.65 KB)

Additional Information: full citation, abstract, references,

Sun's announcement of the programming language Java more that anything is, programs traveling on a heterogeneous network and automatically execut describe several classes of mobile code and extract their common characteris the major concerns. With these characteristics as reference points, we exam for mobile code. The conclusion ...

Keywords: Java, Limbo, Objective Caml, Obliq, Safe-Tcl, distribution, formal programming, object orientation, portability, safety, security, telescript

**96 Visualising reusable software over the web**

Stuart Marshall, Kirk Jackson, Robert Biddle, Michael McGavin, Ewan Tempero,  
December 2001 Australian symposium on Information visualisation - Volu

Full text available:  pdf(1.38 MB)

Additional Information: full citation, abstract, references


This paper describes an architecture we have developed for web-based visua  
The motivation for this work is to allow users of web-based software reposito  
and frame-works, to see what they do, and create *interactive visual documen*  
developer's actions. This visual documentation can be used to determine wh  
it, and whether it can be reused in ...

Keywords: code reuse, software visualisation, web-based code repositories

**97 A collaborative analysis tool for visualisation and interaction with spatial d**

Tina Manoharan, Hamish Taylor, Paul Gardiner

February 2002 Proceeding of the seventh international conference on 3D Web

Full text available:  pdf(1.11 MB)

Additional Information: full citation, abstract, referenc

A collaborative virtual environment system is described that is designed to s  
analysis of spatial data and urban planning proposals. The system seeks to e  
participants into the virtual environment, while preserving traditional textua  
cooperation mechanisms. The systems aim is to improve productivity, qualit  
planning process. The architecture of the Collaborative Ur ...

Keywords: collaborative virtual environment (CVE), communication, compute  
data persistence, direct interaction and manipulation, spatial analysis, urban

**98 A component model for stardardized web-based education**

L. Anido-Rifón, M. Llamas-Nistal, M. J. Fernández-Iglesias

April 2001 Proceedings of the tenth international conference on World Wide W

Full text available:  pdf(406.37 KB)

Additional Information: full citation, references,

Keywords: Learning technology standardization, Web-based course delivery sy  
systems, educational web applications, learning technology, practice and exp

**99 Session 14: middleware support for multimedia: A pluggable service-to-se  
home multimedia networks**

Jin Nakazawa, Hideyuki Tokuda

December 2002

Proceedings of the tenth ACM international conference on M

Full text available:  pdf(436.61 KB)

Additional Information: full citation, abstrac

This paper proposes a pluggable service-to-service (S2S) communication me  
networks, called Virtual Networked Appliance (VNA) architecture. In the arch  
the plug-gable S2S communication mechanism are separated in an orthogon  
architecture solved problems of home networks on which users have to oper  
technologies simultaneously: middleware fragmentation probl ...

**100 Web-based money investment consultant**

Wolfgang Golubski, Thomas Feuring, Johannes-Bernhard Hundhege

March 2000 Proceedings of the 2000 ACM symposium on Applied computing

Full text available:  pdf(152.85 KB) Additional Information: full citation, references, citings, index terms

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